

WHAT IS CLAIMED IS:

1. A piezoelectric tunable electronic device comprising:
a substrate;
a support comprising a central portion and at least two elastic arms extending
5 from said central portion and in a substantially symmetric arrangement relative to
said central portion wherein an end of said elastic arms is fixed to said substrate,
with said central portion distanced to said substrate at a predetermined distance;
a first electrode positioned on said central portion of said support;
a second electrode positioned on said substrate, facing said central portion of
10 said support; and
at least two piezoelectric films adhered to said at least two arms of said
support respectively at positions substantially symmetrically to said central portion
of said support;
whereby, by applying a voltage to said piezoelectric films, the distance
15 between said first electrode and said electrode may be changed.
2. The piezoelectric tunable electronic device according to claim 1 wherein said
support comprises an elastic strip.
3. The piezoelectric tunable electronic device according to claim 1 wherein said
support comprises at least 3 elastic arms extending from said central portion.
- 20 4. The piezoelectric tunable electronic device according to claim 1, further
comprising a second substrate positioned above said support, wherein said second
electrode is positioned on said second substrate, facing said central portion of said
support.

5. The piezoelectric tunable electronic device according to claim 3 wherein said support further comprises a plate to support said first electrode.